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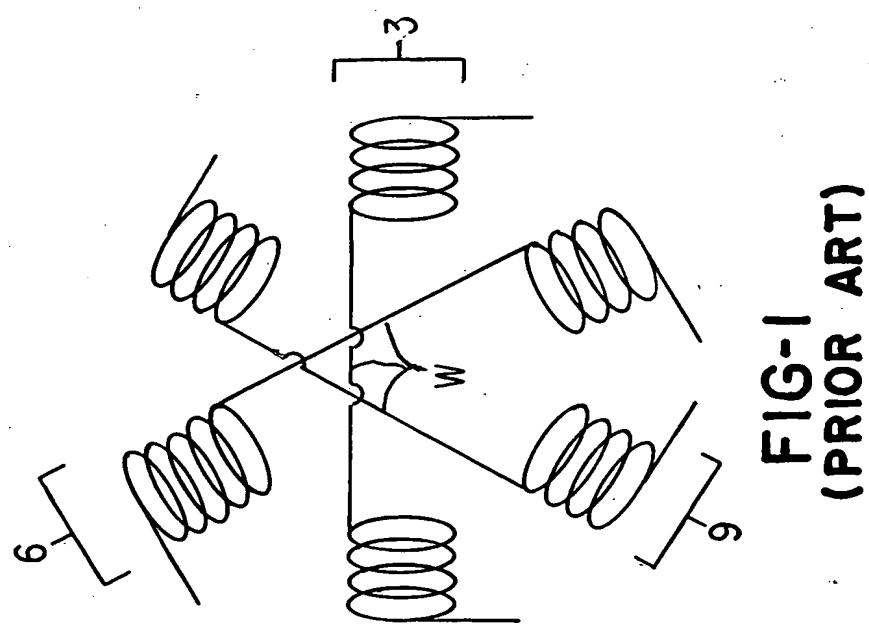
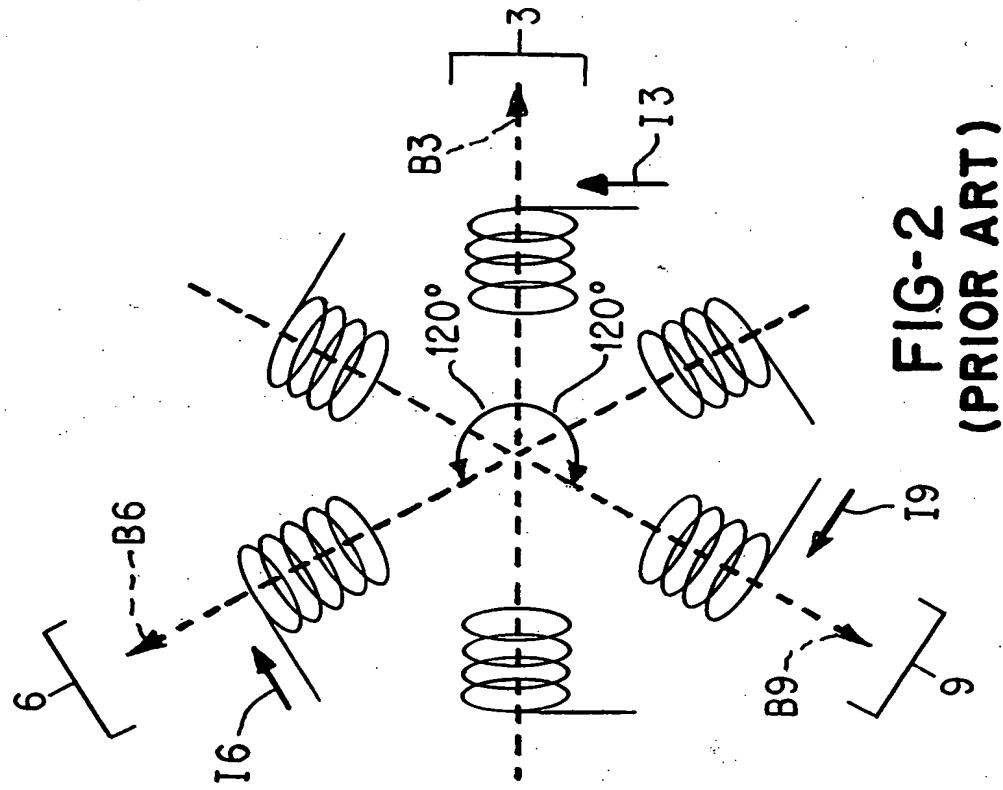
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REPLACEMENT DRAWING SHEETS  
IN RESPONSE TO NOTICE TO FILE MISSING PARTS OF 2/04/2004  
Serial No. 10/698,467  
Filed October 31, 2003



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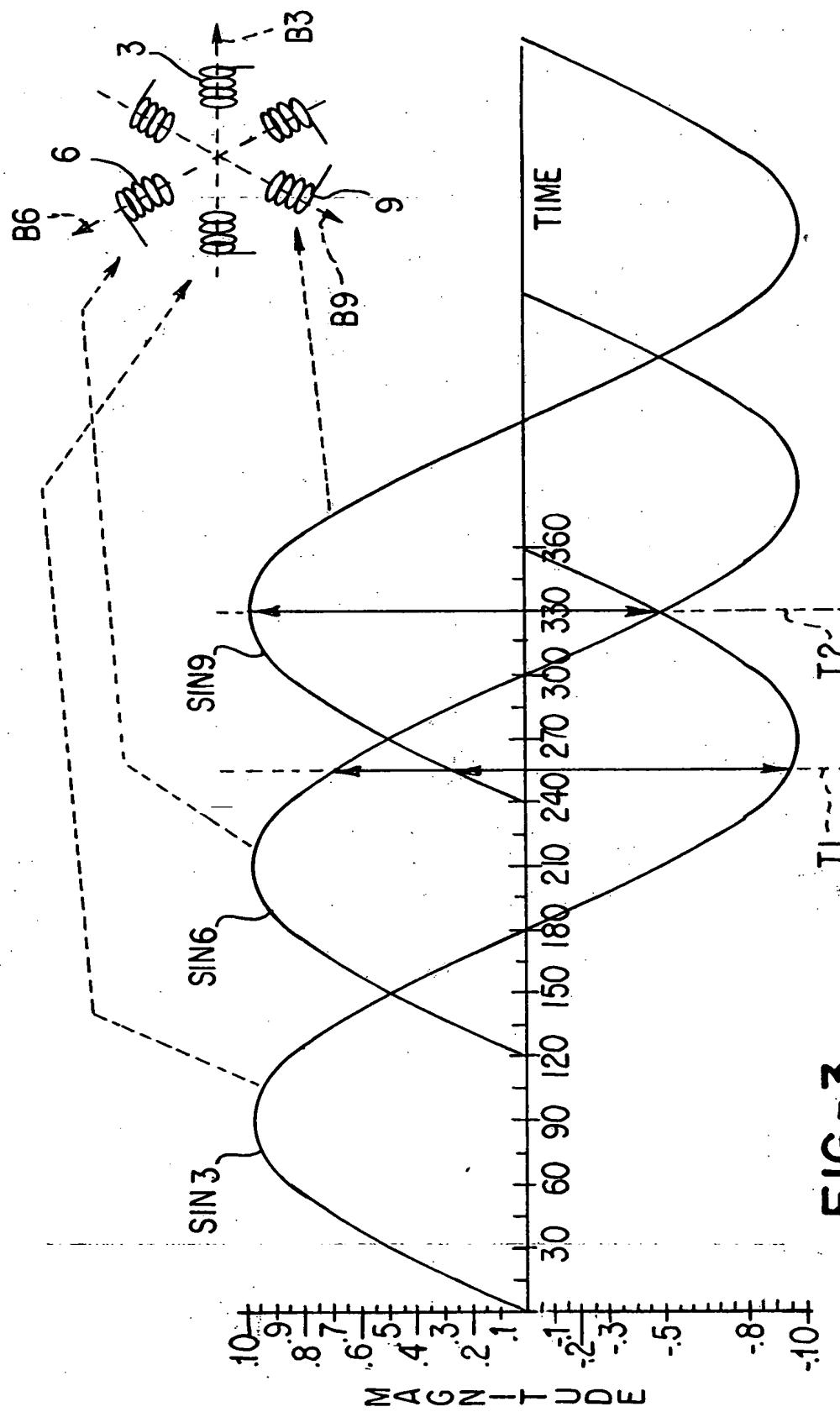
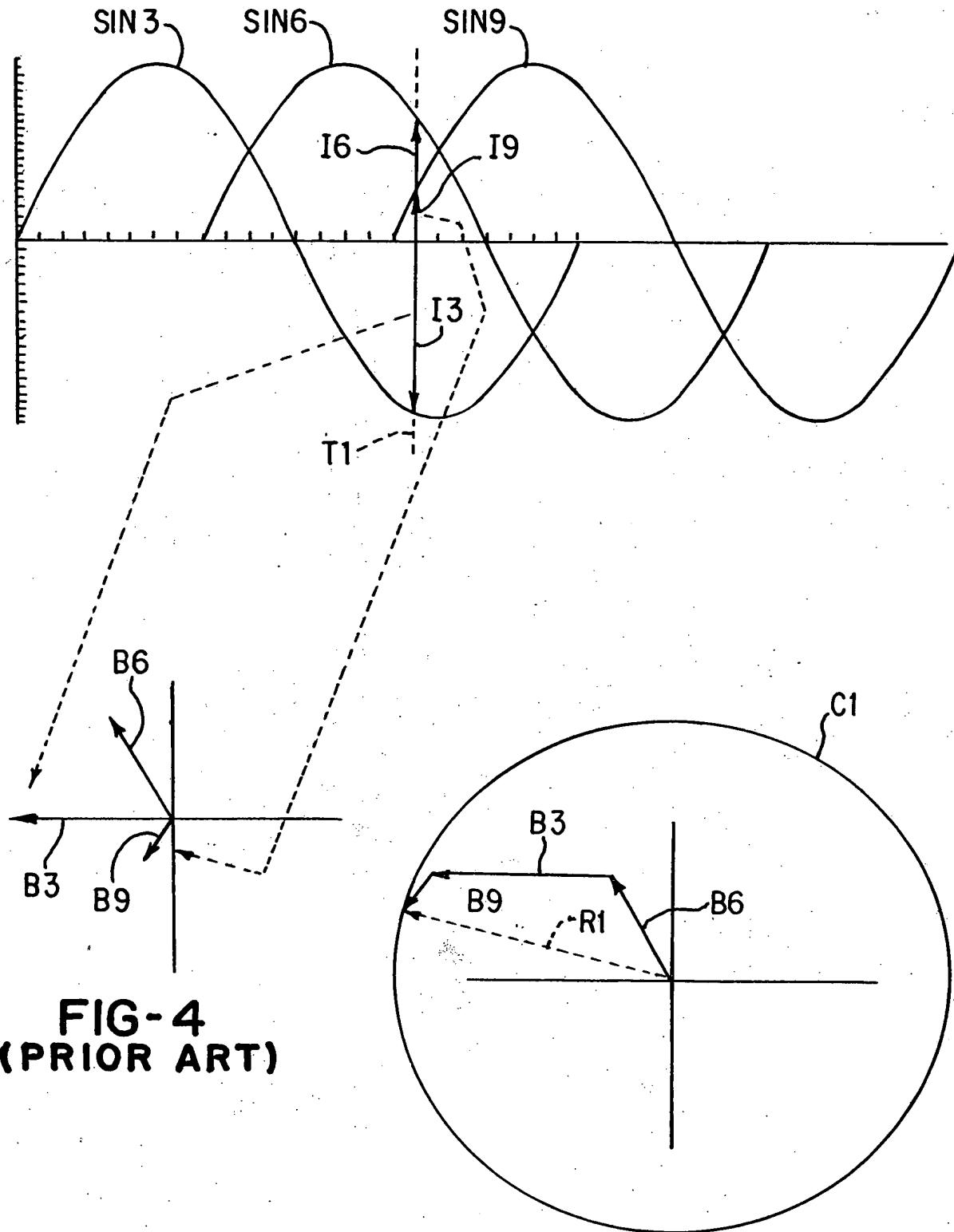


FIG - 3  
(PRIOR ART)

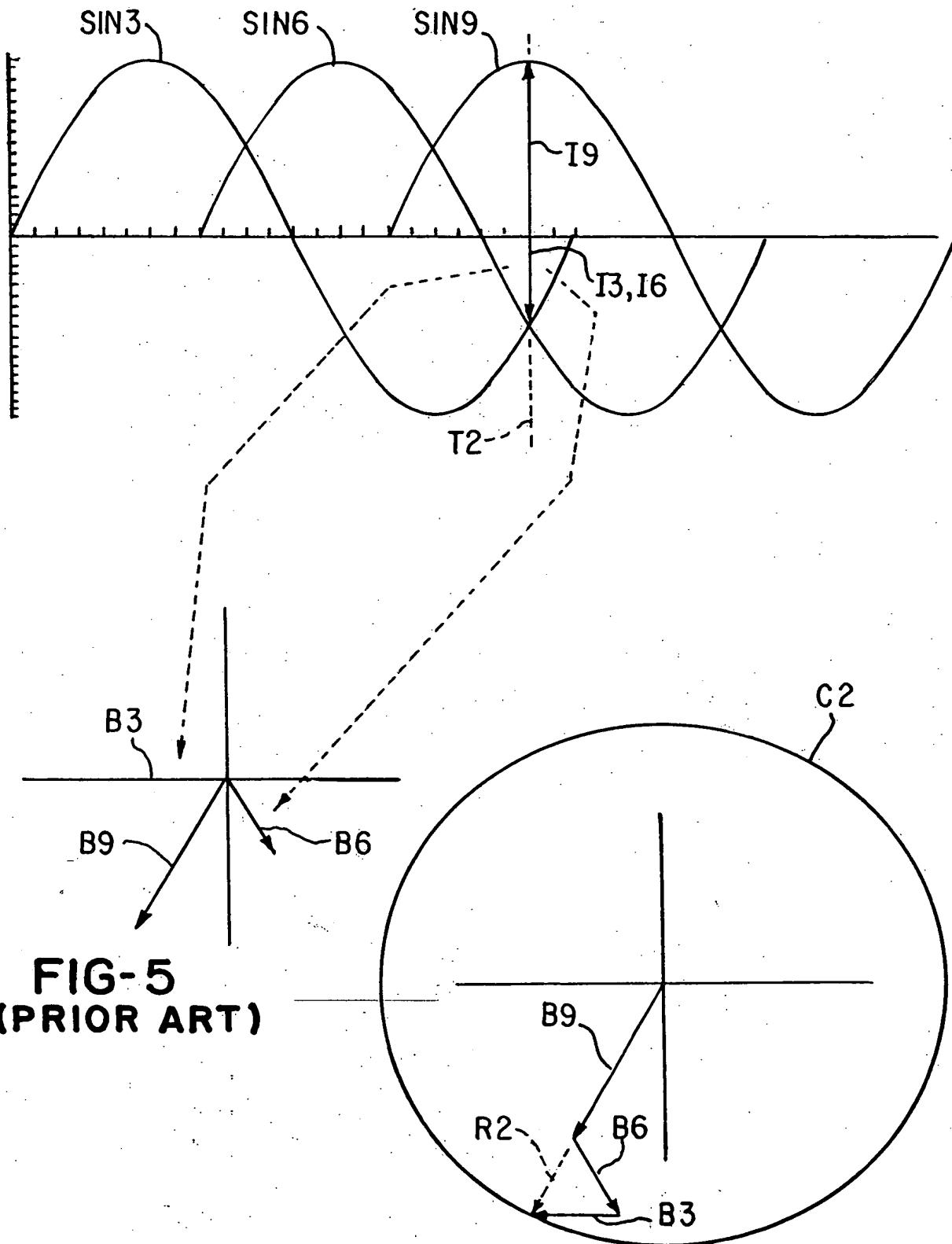
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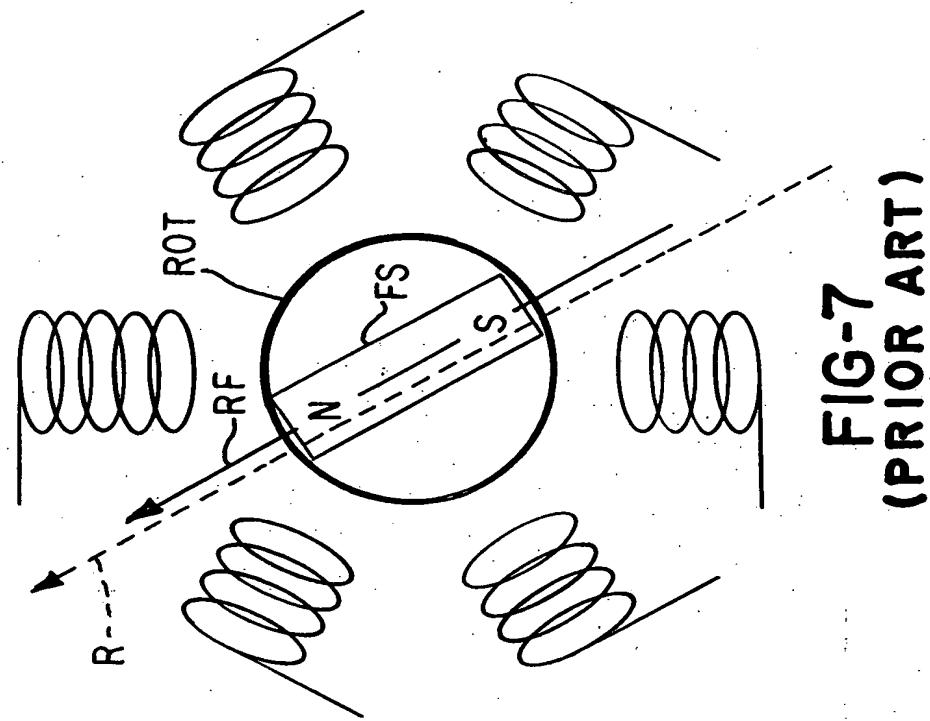


FIG-7  
(PRIOR ART)

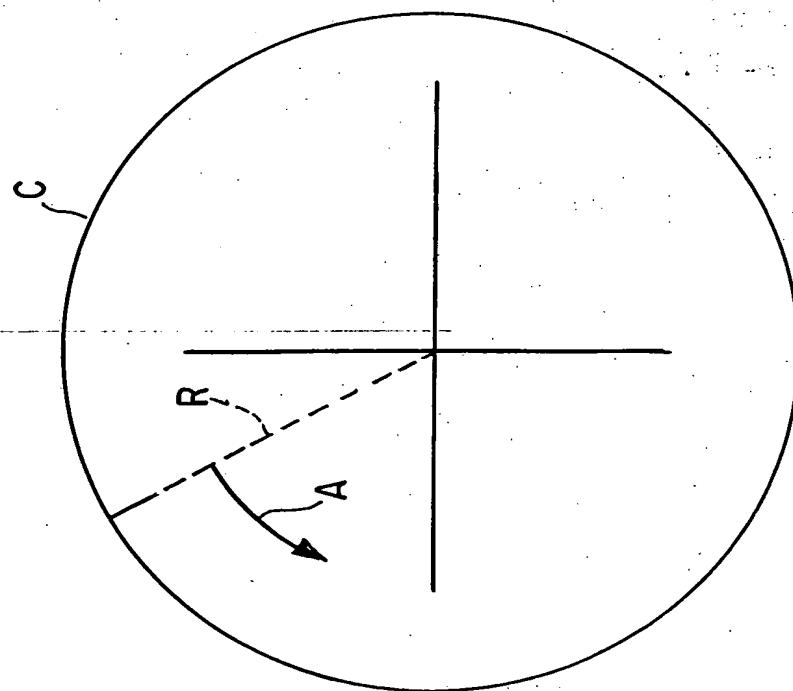


FIG-6  
(PRIOR ART)

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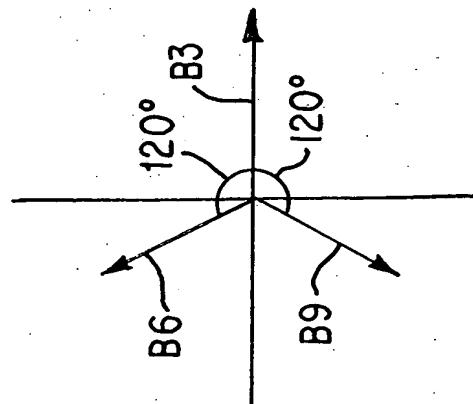
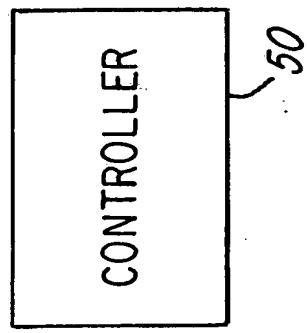
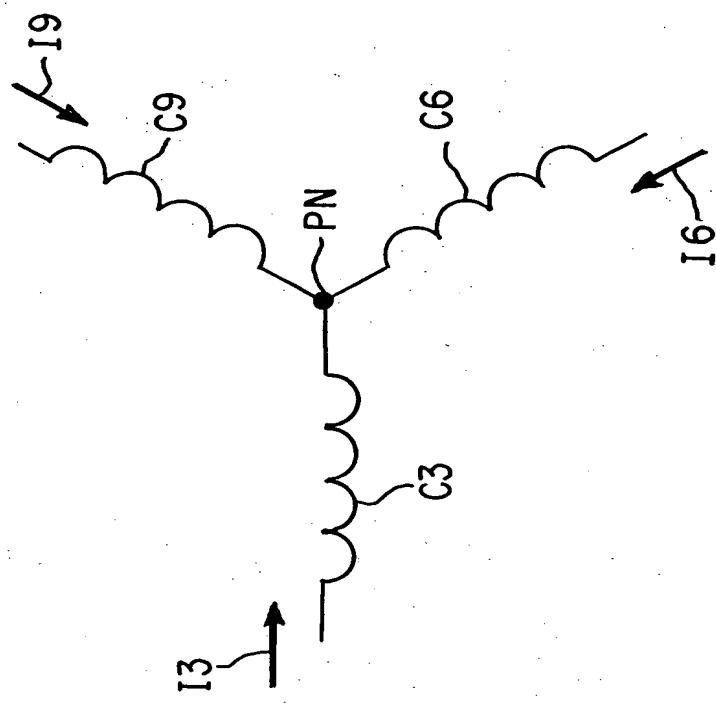


FIG-8  
(PRIOR ART)

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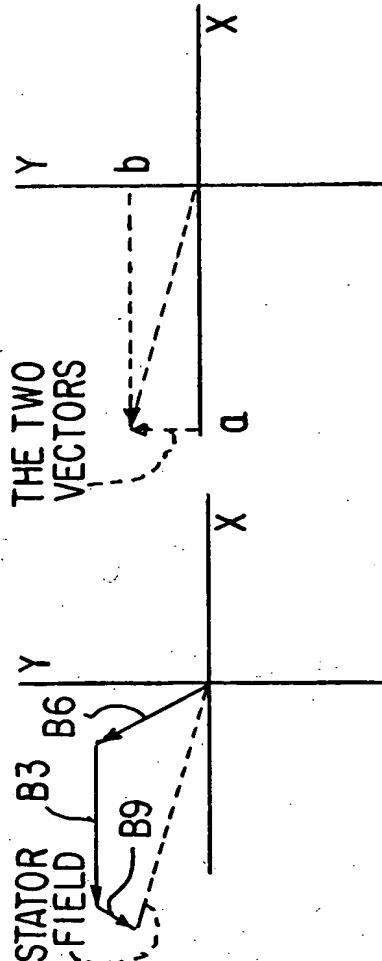
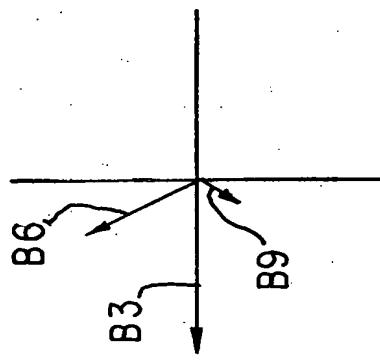
**FIG-9  
(PRIOR ART)**

55  
MEASURE EACH OF  
THREE CURRENTS

57  
BASED ON KNOWN  
ORIENTATION OF COILS,  
COMPUTE VECTOR FOR  
EACH CURRENT IN  
STATIONARY COORDINATE  
SYSTEM

60  
OBTAINTWO ORTHOGONAL  
VECTORS WHICH SUM  
TO STATOR VECTOR, IN  
STATIONARY COORDINATE  
SYSTEM

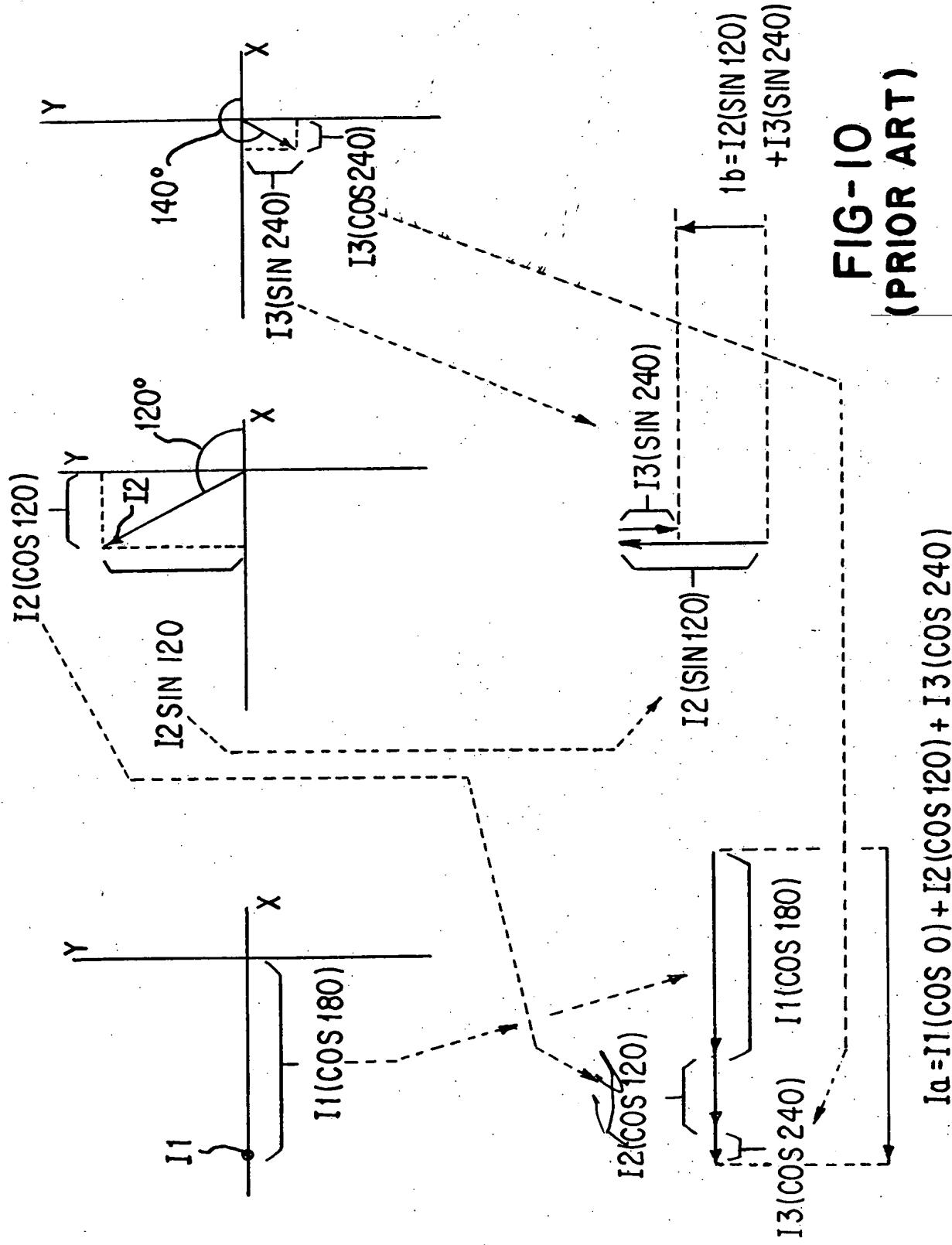
TO BLOCK 70  
FIG-12



(SEE FIGURES 10 AND 11)

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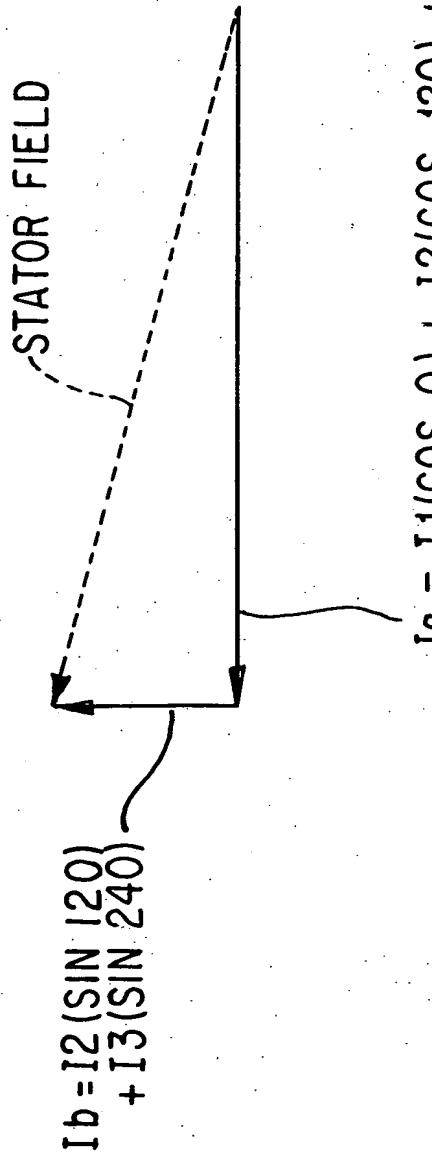
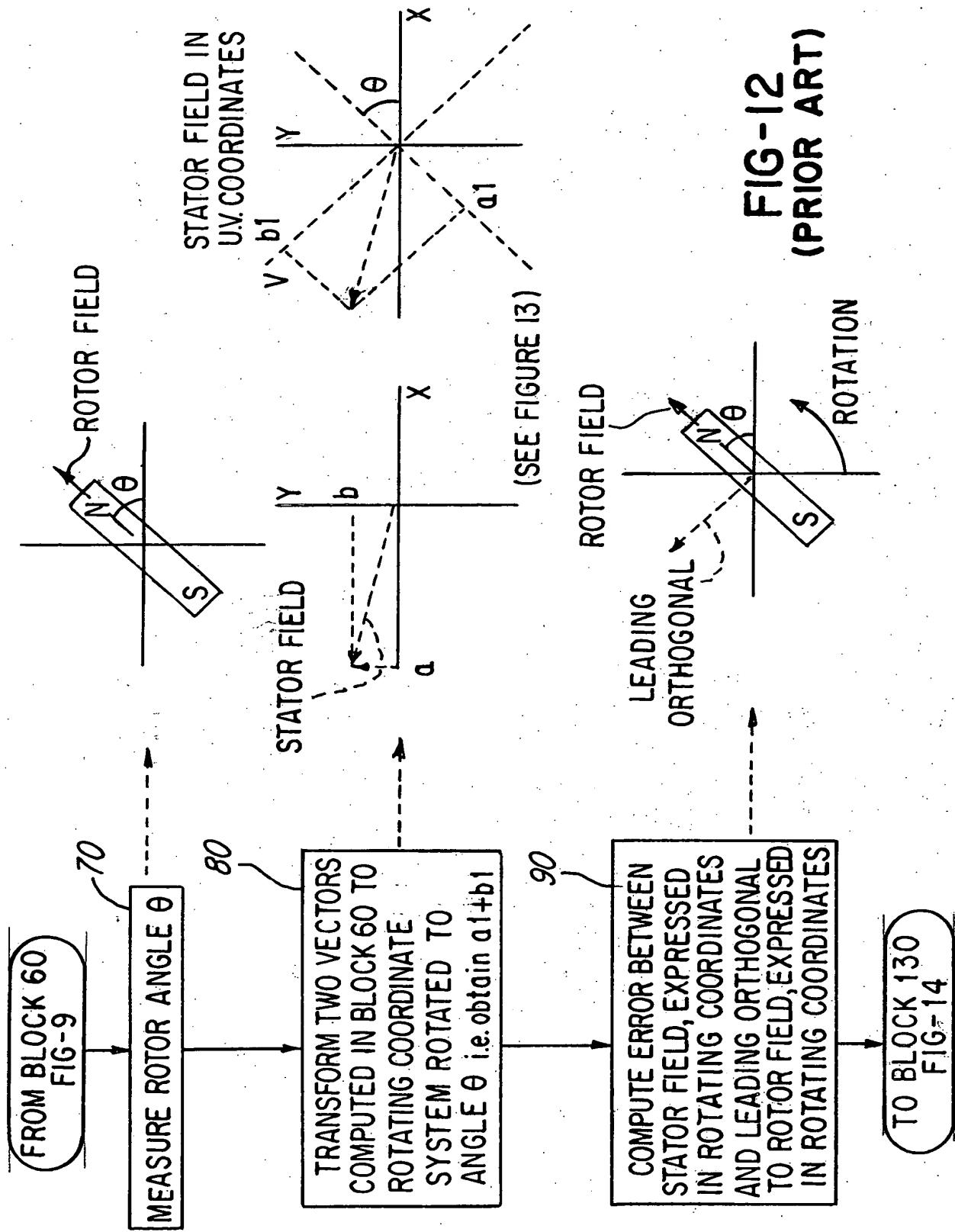


FIG-11  
(PRIOR ART)

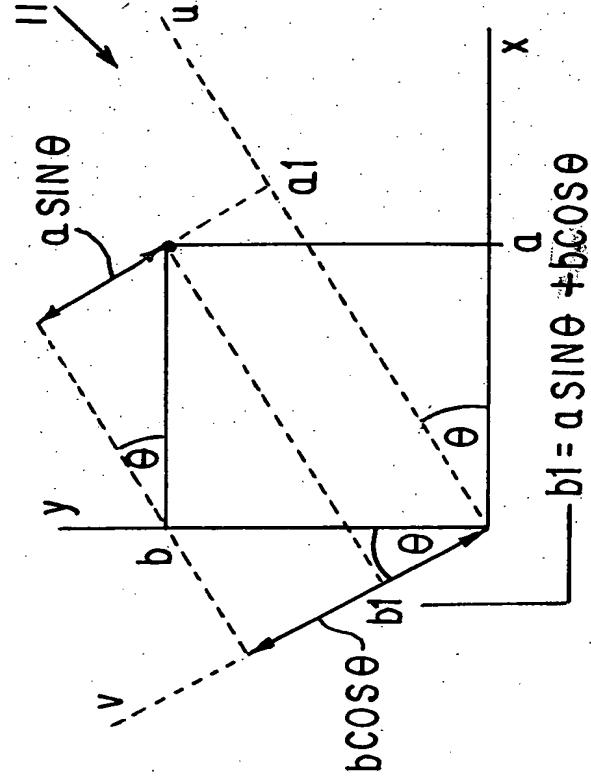
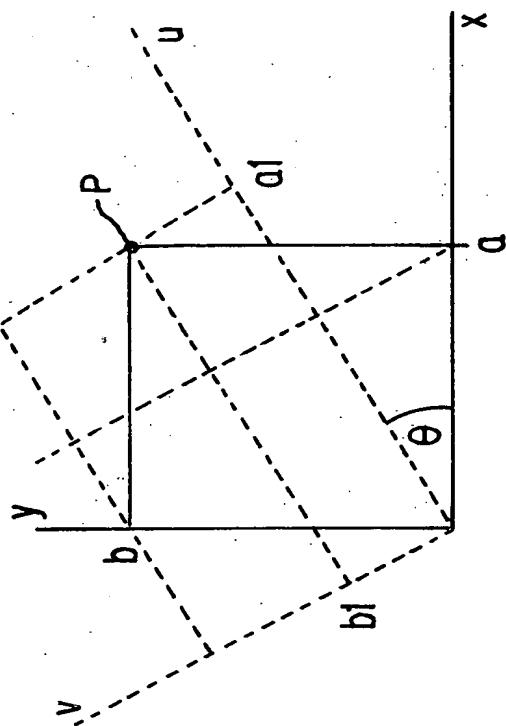
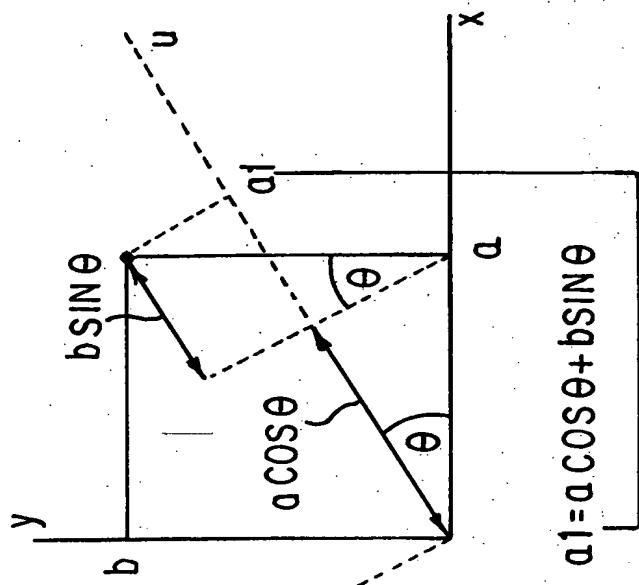
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**FIG-13  
 (PRIOR ART)**

$$a1 = a \cos \theta + b \sin \theta$$

$$b1 = a \sin \theta + b \cos \theta$$

105

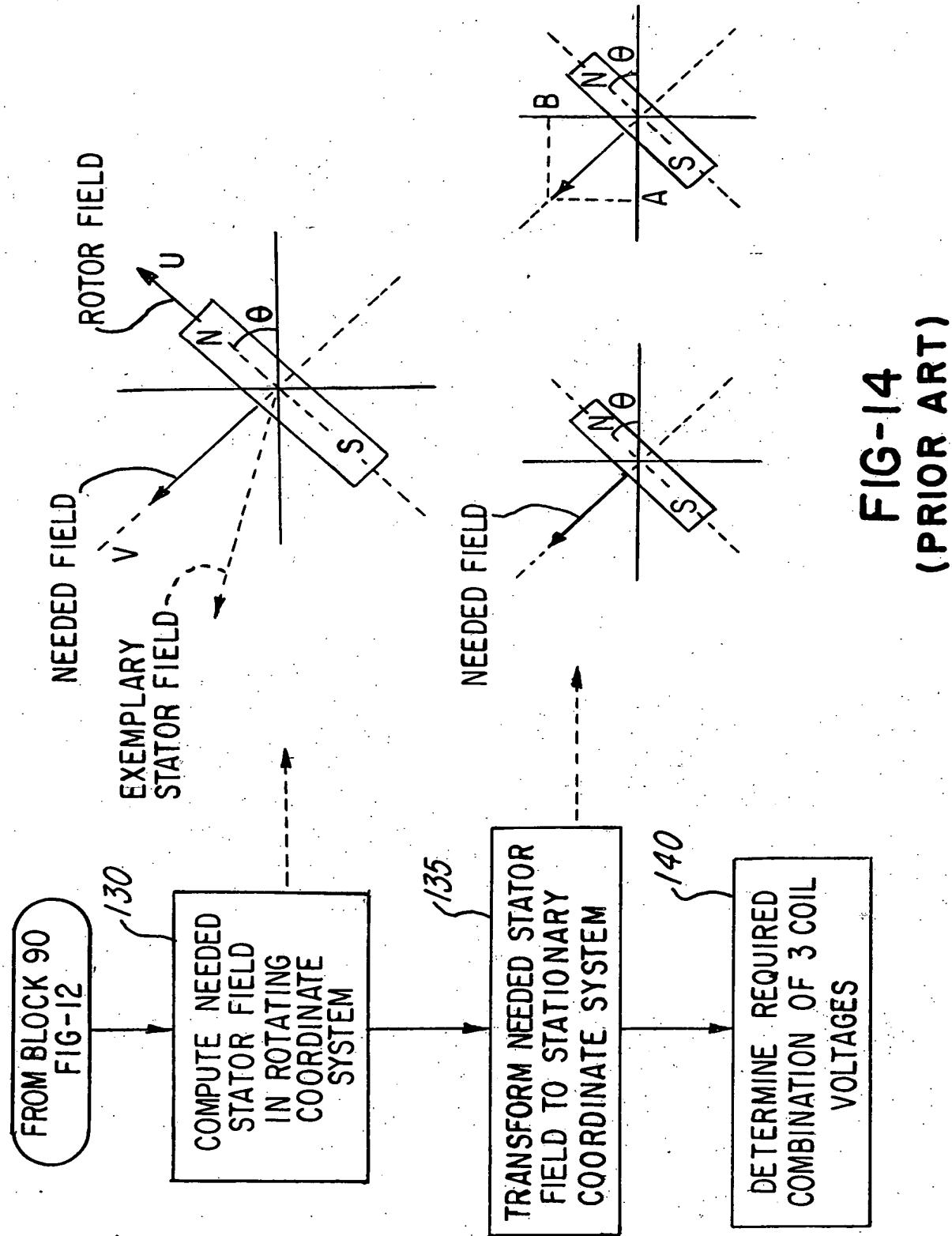
100

115

110

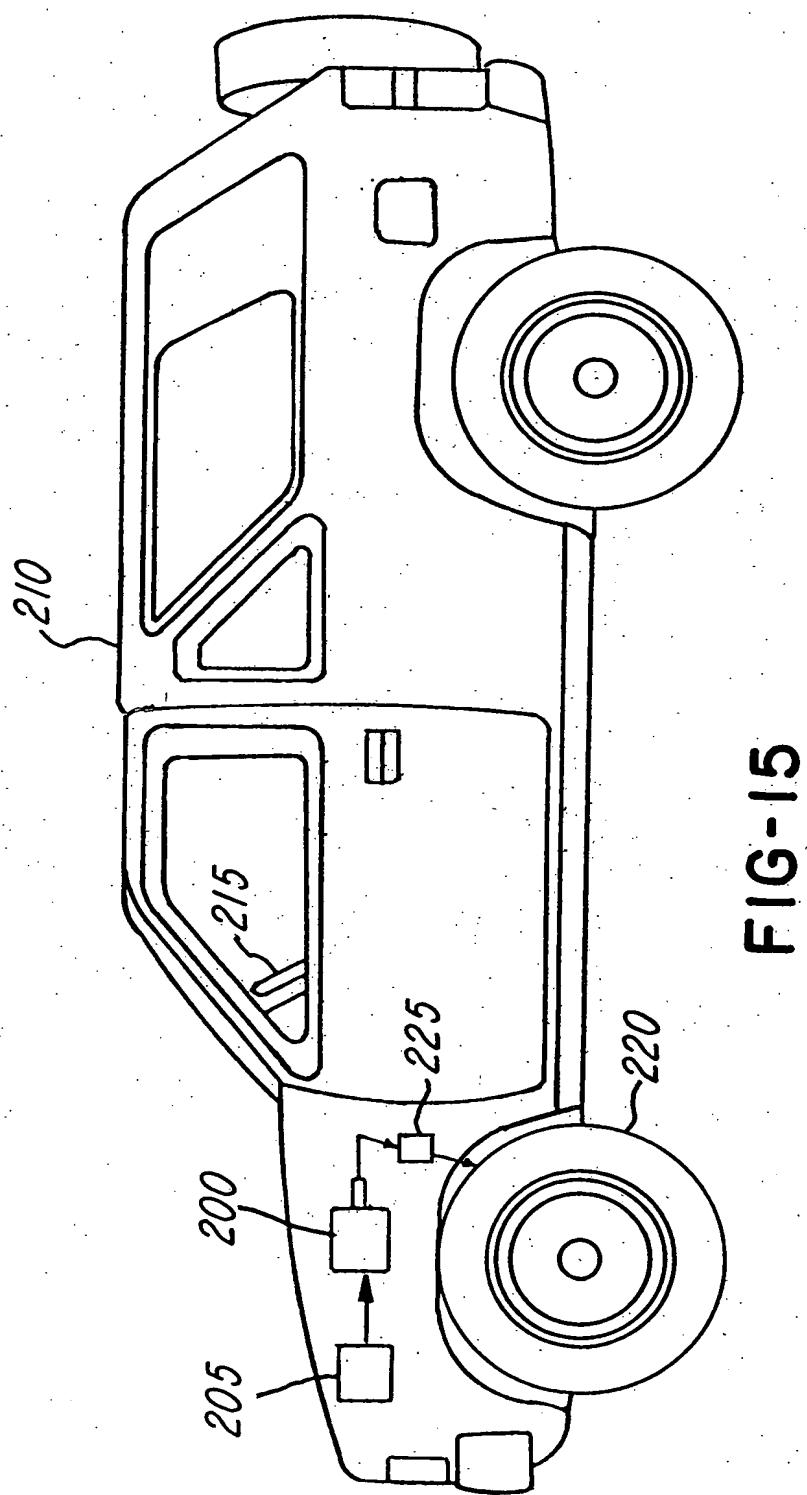
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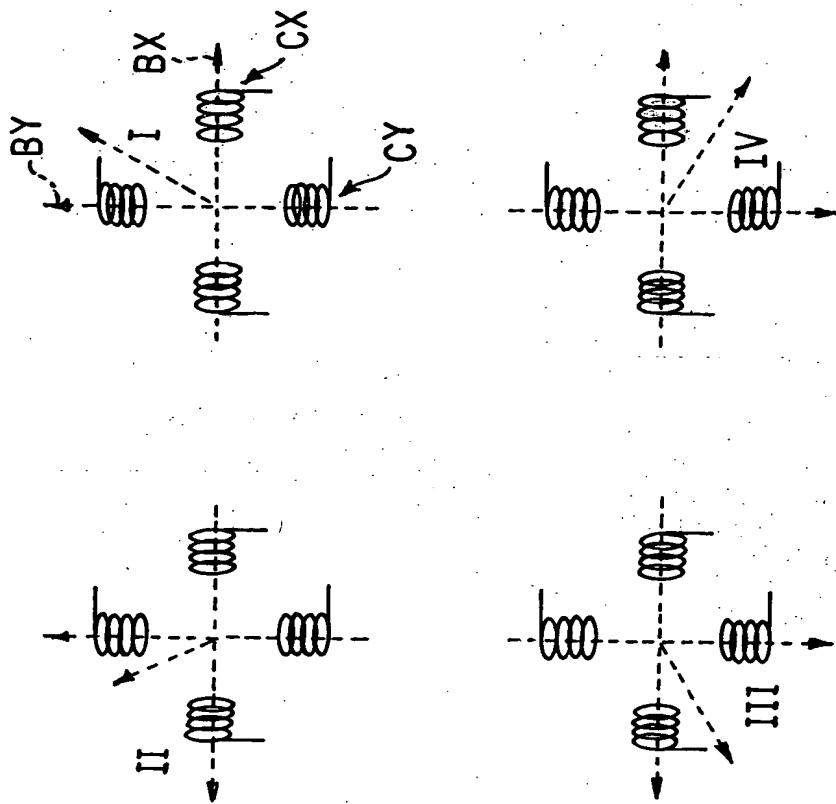


FIG-21

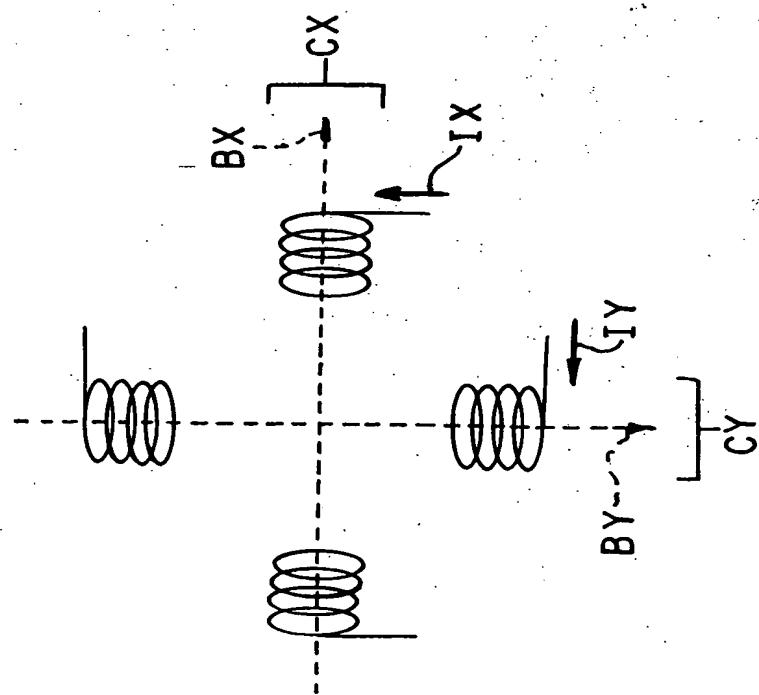
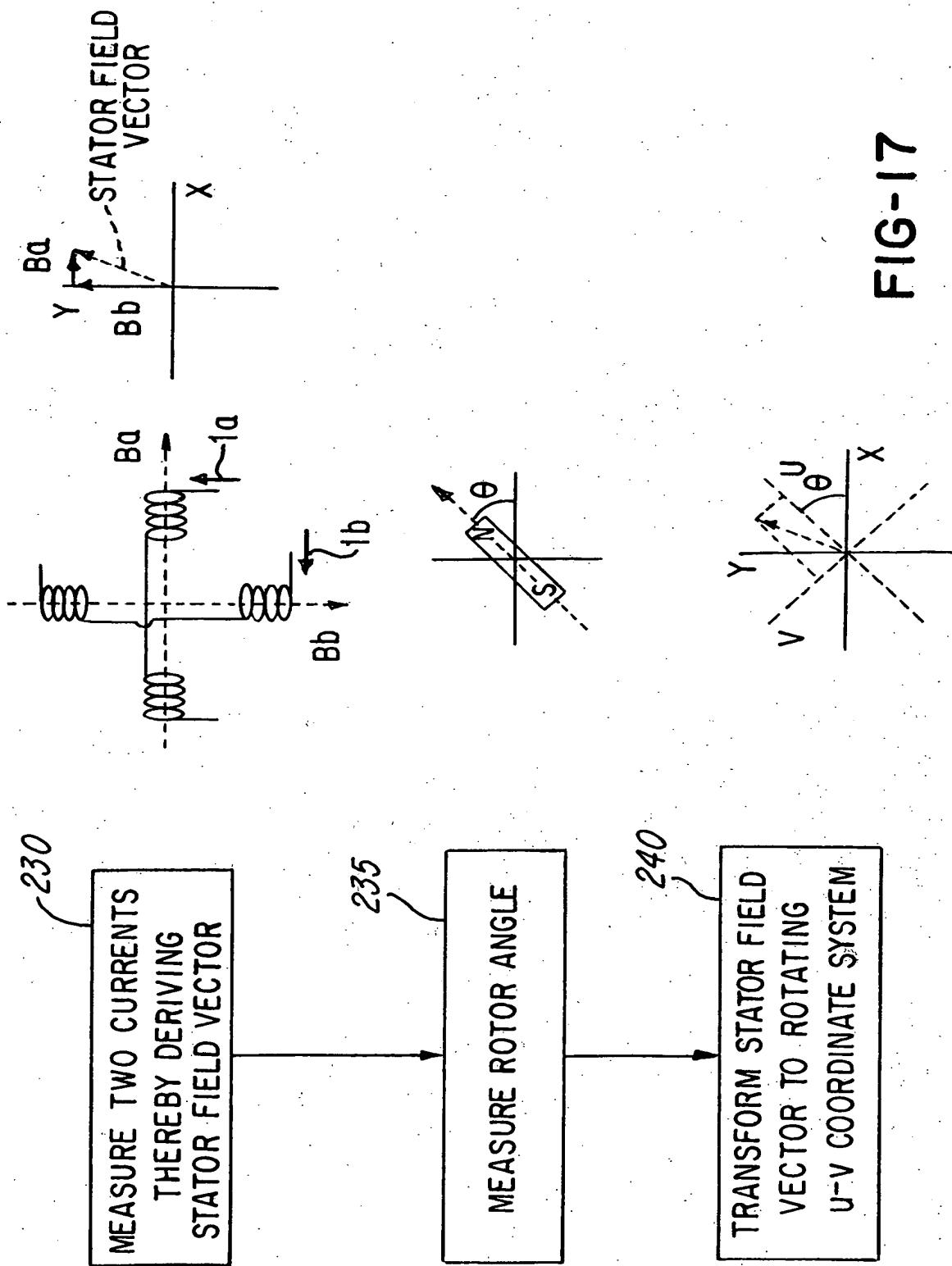
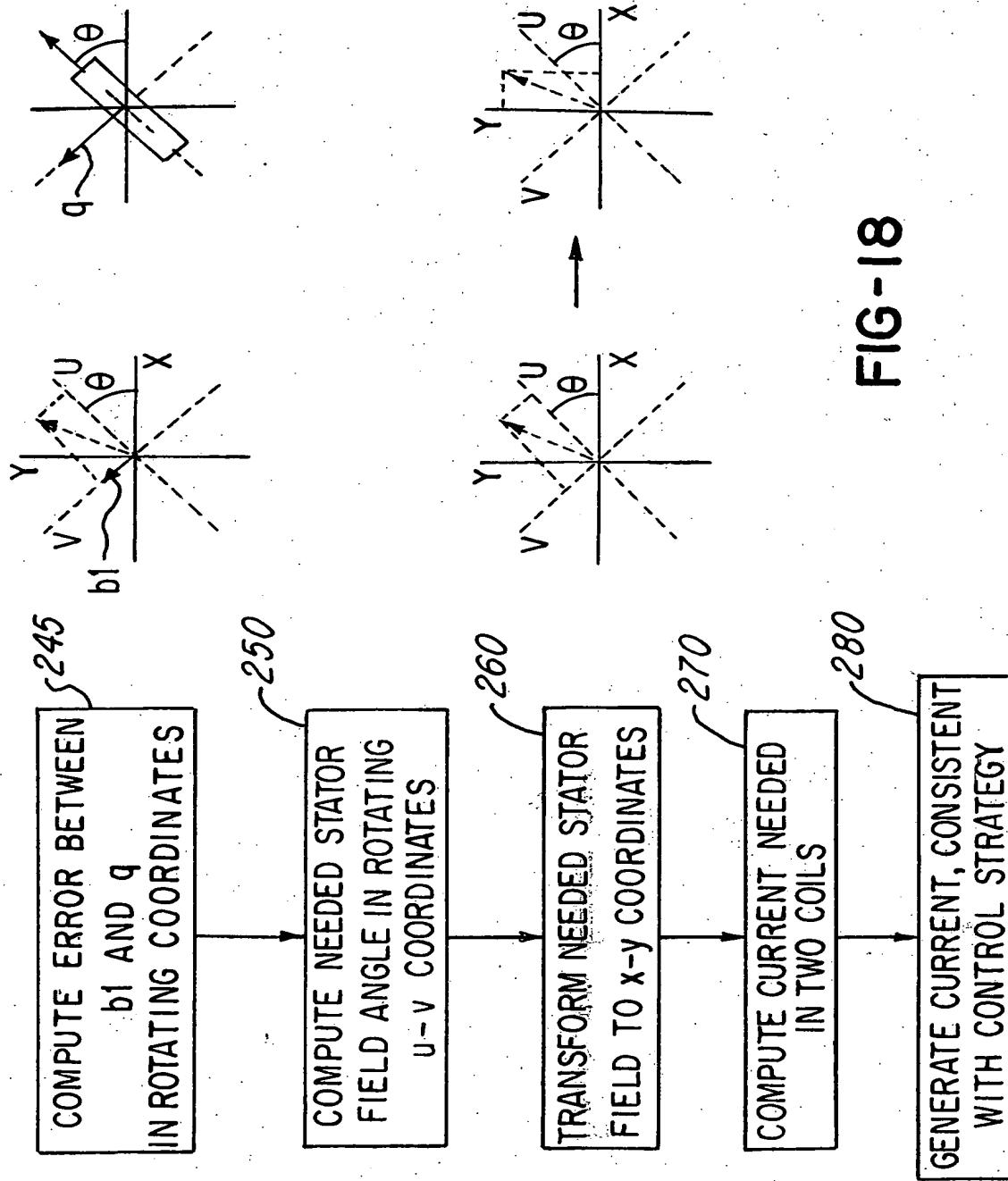


FIG-16



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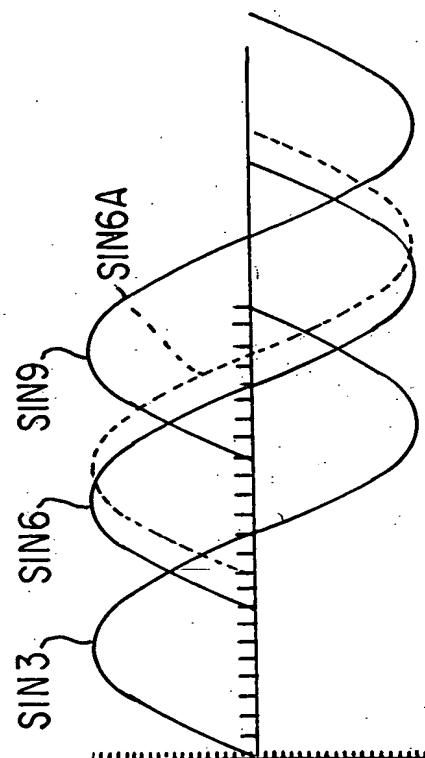


FIG-34

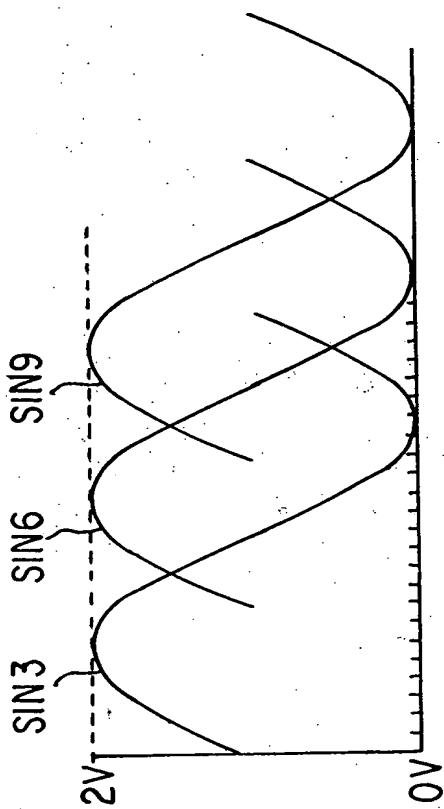
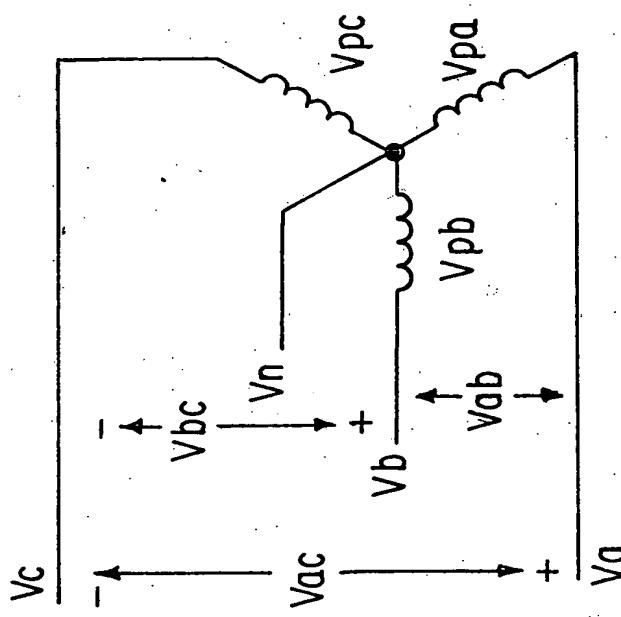


FIG-19 (PRIOR ART)



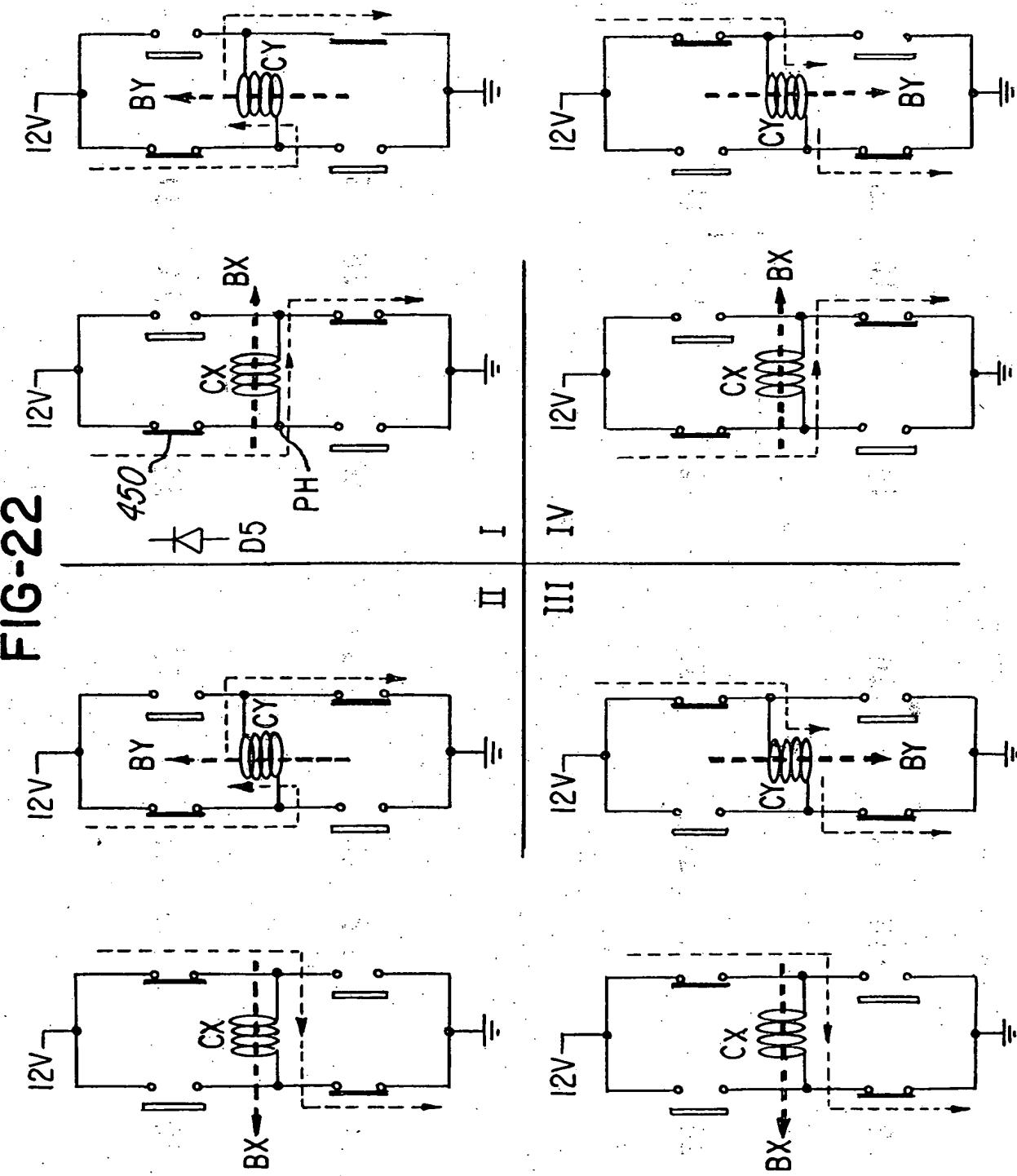
$$|V_L| = |V_{ab}| = |V_{bc}| = |V_{ca}| = \sqrt{3}|V_p|$$

$$\text{TOTAL POWER} = \sqrt{3} |V_{LINE}| |I_p|$$

FIG-20  
 (PRIOR ART)

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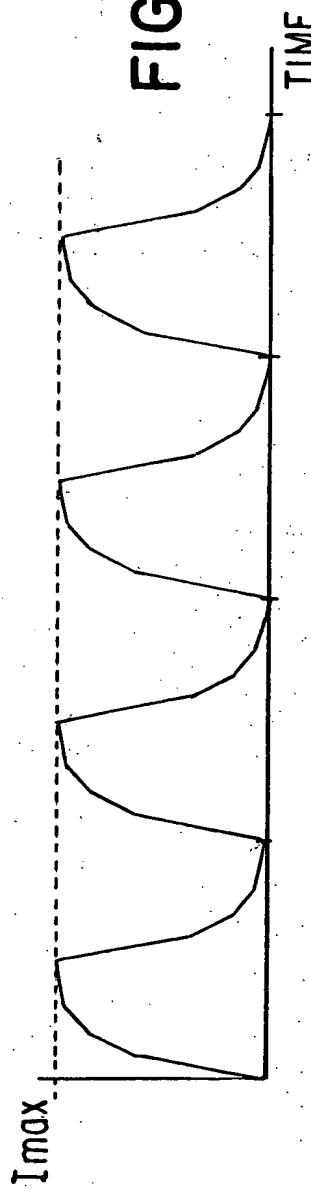
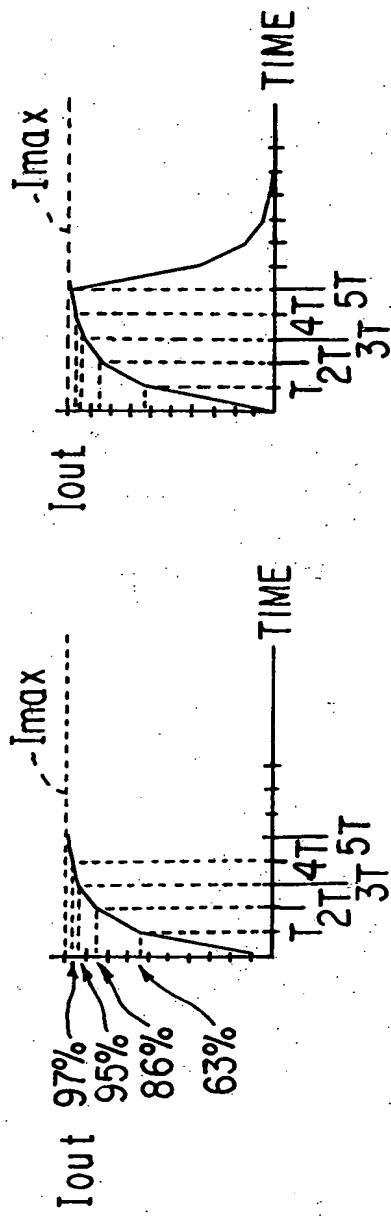
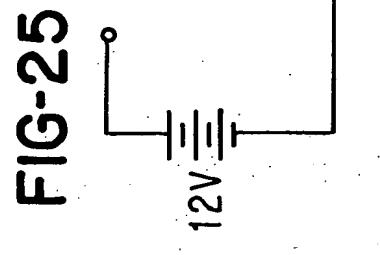
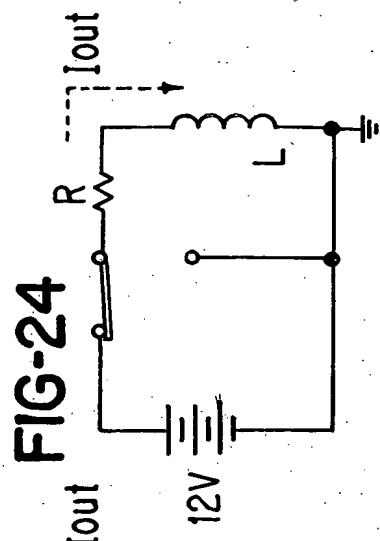
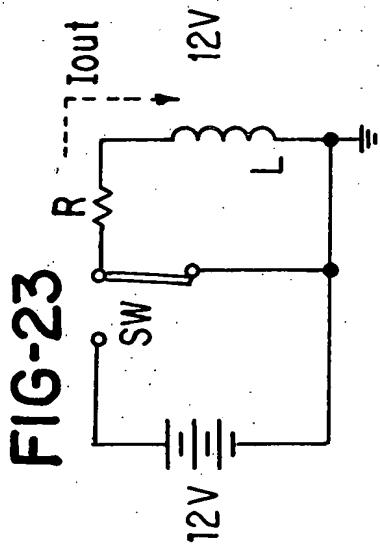
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**FIG-22**

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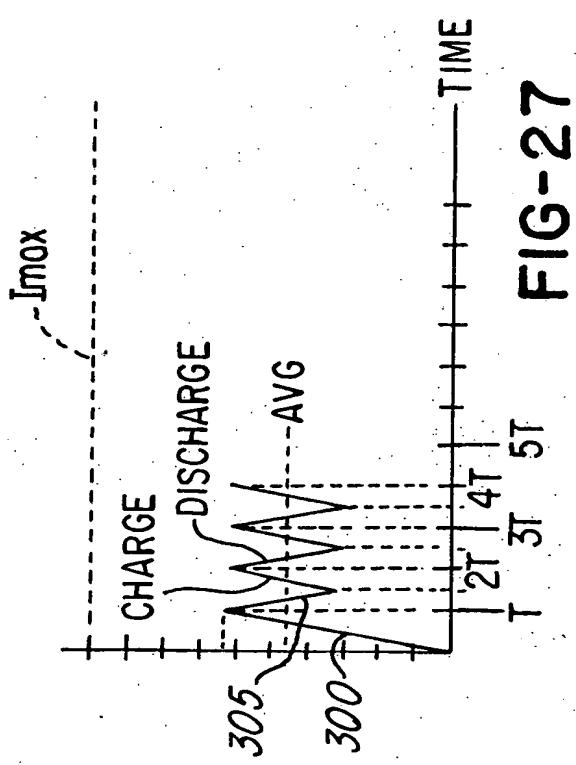


FIG-28

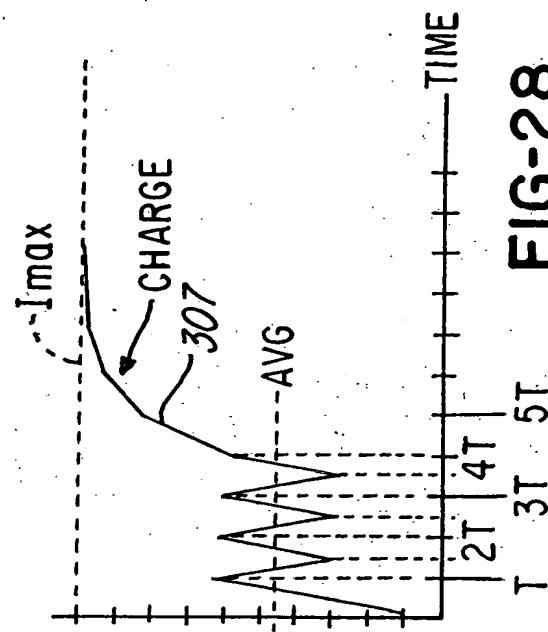


FIG-27

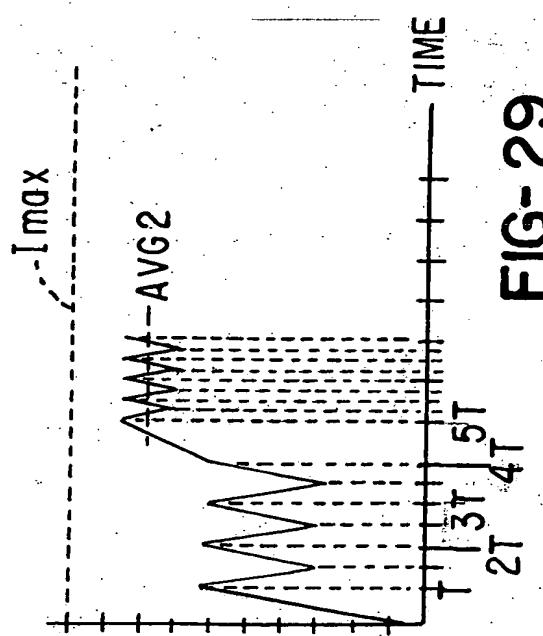


FIG-29

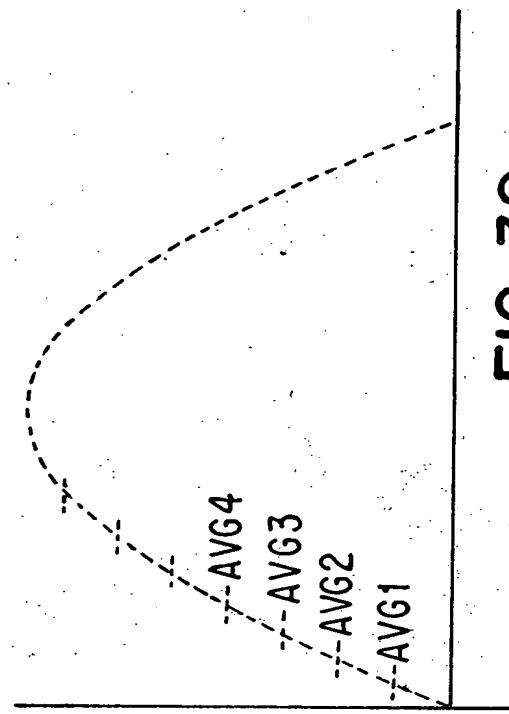
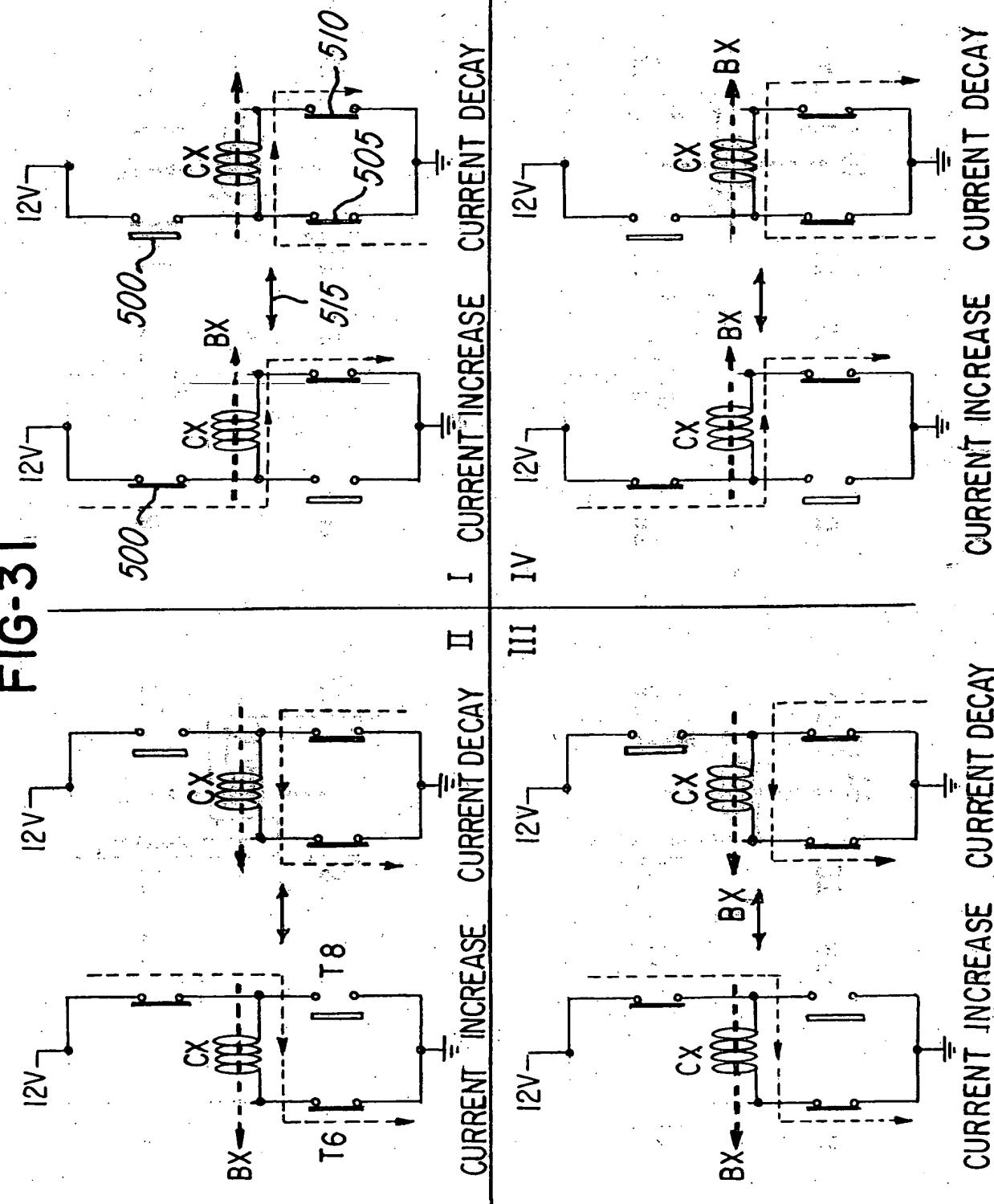


FIG-30

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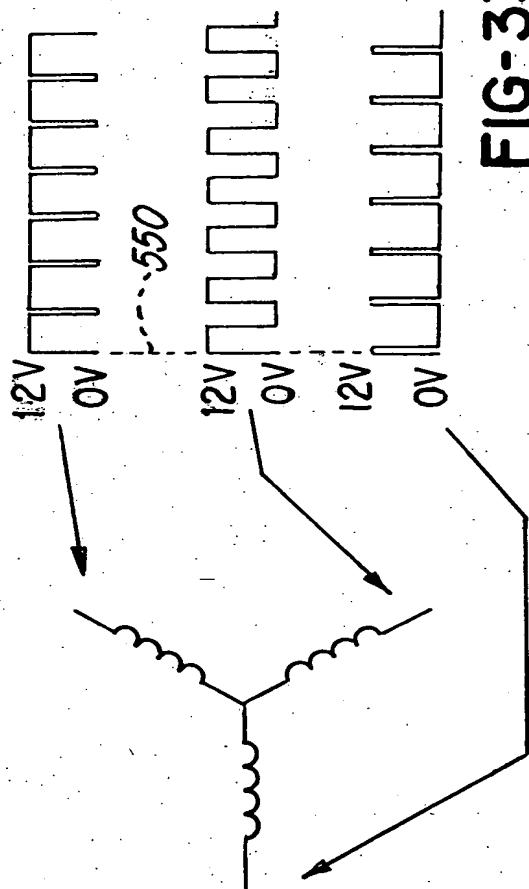
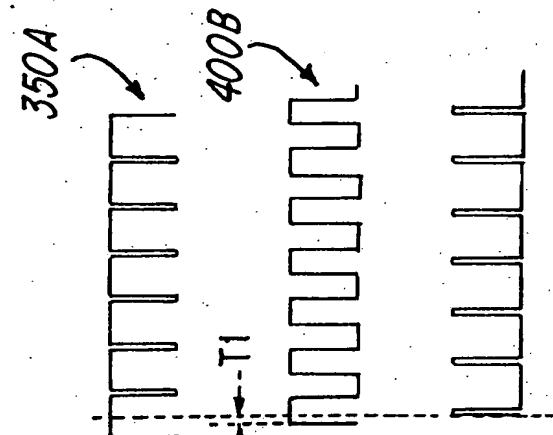
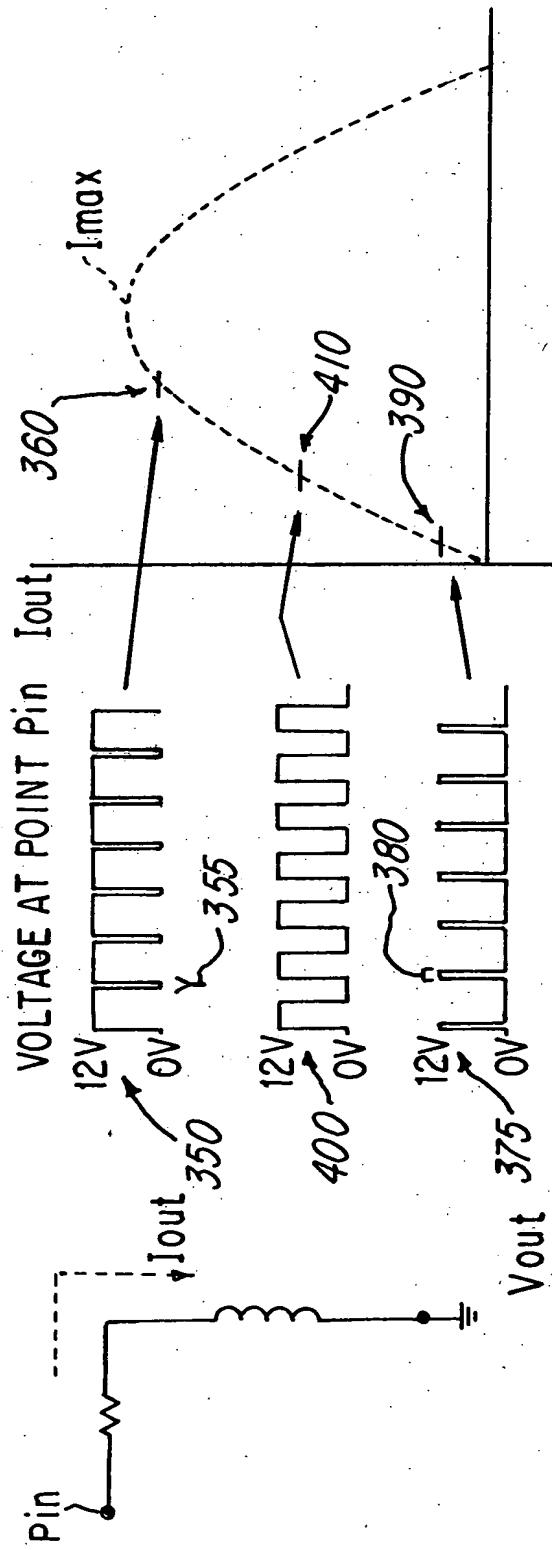
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FIG-31



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**FIG - 35**

**REPLACEMENT DRAWING SHEETS  
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MOTOR TYPE	PHASES	COMMUTATION	CONTROL
BRUSH DC MOTOR	3 SLOTS	MECHANICAL	OPEN LOOP
PERMANENT MAGNET	4 SLOTS		VOLTAGE
SERIES WOUND FIELD	...		CURRENT
SHUNT WOUND FIELD	N slots		FIELD CONTROL
COMPOUND WOUND FIELD			
SWITCHED RELUCTANCE MOTOR	1	CURRENT REGULATED	OPEN LOOP
	2	VOLTAGE REGULATED	VOLTAGE
	3		CURRENT
	4		PHASE ANGLE
	n		
INDUCTION MOTOR	1	SINUSOIDAL SPACE VECTOR	OPEN LOOP
	2	TRIANGLE - SINE	CONSTANT V/Hz
	3		FOC
	n		
PIEZOELECTRIC MOTOR			
BRUSHLESS DC	2	SINE	FOC

## INVENTION